

Andrew Schechtman-Rook

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<https://github.com/AndrewRook>

EXPERIENCE

Senior Manager, Data Science

2018-Present

Capital One

- Guided ongoing development of the core credit card valuations model scoring platform, delivering regular releases of new and updated models while improving the robustness and maintainability of our infrastructure.
- Led technical development of model monitoring tools, mentoring three junior data scientists to deliver a maintainable package on time and to spec.
- Deployed the first cloud-based credit card underwriting model in the company via a dockerized Python API, with an estimated incremental value of \$35MM per year.

Manager, Data Science

2016-2018

Capital One

- Built a Python library to facilitate the creation of robust, production-ready data analysis pipelines, saving hundreds of hours of R&D effort across multiple production models.
- Led development of a prototype automated machine learning model deployment scheme for cloud-based applications, influencing the development direction for the company-wide credit card application processing platform.

Principal Data Scientist

2014-2016

Capital One Labs

- Implemented a novel approach to deliver internal technical trainings, providing over 5000 hours of classes with no instructors.
- Programmed and deployed an interactive course completion dashboard using Flask and dc.js to provide progress reports to individual students as well as company leadership.

Data Science Fellow

2014

The Data Incubator

- Formulated a model to predict flight delay times based on historical airline on-time arrivals.
- Created a web interface to provide interactive itinerary input and visualizations to intuitively display model results.

TECHNICAL SKILLS

Programming: Python (numpy, scipy, pandas, sklearn, xgboost, matplotlib), shell scripting

Databases and Web Design: Flask, MySQL/PostgreSQL, Snowflake

Cloud Computing/Devops: AWS, Ansible, Docker, CircleCI, Jenkins

Operating Systems: Linux, Mac OSX

Data Analysis: Parallel and distributed computing, machine learning, nonlinear optimization, image processing

EDUCATION

PhD, Astronomy, University of Wisconsin-Madison

December 2013

MS, Astronomy, University of Wisconsin-Madison

June 2009

BS, Astronomy, Case Western Reserve University

May 2007